

THE CLAIMS

1 1. (currently amended) A multi-layer, wound golf ball comprising:
2 a solid center;
3 at least one intermediate layer of an ionomer material disposed over the center;
4 a wound layer of a tensioned material disposed over the at least one intermediate layer;
5 and
6 a cover disposed over the wound layer,
7 wherein at least one of the cover or the at least one intermediate layer is formed from a
8 component which comprises a thermoset material;
9 wherein the tensioned material comprises a material selected from the group consisting of
10 fiber, glass, carbon, polyether urea, polyether block copolymers, polyester urea, polyester block
11 copolymers, isotactic-poly(propylene), polyethylene, polyamide, poly(oxymethylene),
12 polyketone, poly(ethylene terephthalate), polyp-phenylene terephthalamide), poly(acrylonitrile),
13 diaminodicyclohexylmethane, dodecanedicarboxylic acid, natural rubber, polyisoprene rubber,
14 styrene-butadiene copolymers, styrene-propylene diene copolymers, another synthetic rubber, or
15 block, graft, random, alternating, brush, multi-arm star, branched, or dendritic copolymers, and
16 combinations thereof; and
17 wherein at least one of the outermost intermediate layer or the cover has a Shore D
18 hardness from about 30 to 85.

1 2. (original) The golf ball of claim 1, wherein the tensioned material comprises a material
2 selected from the group consisting of polyether urea, natural rubber, cis-polyisoprene rubber, and
3 combinations thereof.

1 3. (original) The golf ball of claim 1, wherein the component comprises at least two
2 different thermoset materials.

1 4. (currently amended) A multi-layer, wound golf ball comprising:
2 a center;
3 at least one intermediate layer disposed over the center;
4 a wound layer of a tensioned material disposed over the at least one intermediate layer;
5 and
6 a cover disposed over the wound layer,
7 wherein at least one of the cover or the at least one intermediate layer is formed from a
8 component which comprises a thermoset material;
9 wherein the tensioned material comprises a material selected from the group consisting of
10 fiber, glass, carbon, polyether urea, polyether block copolymers, polyester urea, polyester block
11 copolymers, isotactic-poly(propylene), polyethylene, polyamide, poly(oxymethylene),
12 polyketone, poly(ethylene terephthalate), poly(p-phenylene terephthalamide), poly(acrylonitrile),
13 diaminodicyclohexylmethane, dodecanedicarboxylic acid, and combinations thereof; and
14 wherein at least one of the outermost intermediate layer or the cover has a Shore D
15 hardness from about 30 to 85.

1 5. (original) The golf ball of claim 4, wherein the center comprises a material selected from
2 the group consisting of polybutadiene, natural rubber, polyisoprene, styrene-butadiene
3 copolymers, styrene propylene-diene copolymers, and combinations thereof.

1 6. (original) The golf ball of claim 5, wherein the center has a diameter from about 0.9
2 inches (23 mm) to 1.5 inches (38 mm).

1 7. (canceled)

1 8. (currently amended) ~~The golf ball of claim 4,~~ A multi-layer, wound golf ball comprising:
2 a solid center;
3 at least one intermediate layer disposed over the center;
4 a wound layer of a tensioned material disposed over the at least one intermediate layer;
5 and
6 a cover disposed over the wound layer,
7 wherein at least one of the cover or the at least one intermediate layer is formed from a
8 component which comprises a thermoset material;
9 wherein the tensioned material comprises polyether urea; and
10 wherein at least one of the outermost intermediate layer or the cover has a Shore D
11 hardness from about 30 to 85.

1 9. (original) The golf ball of claim 4, wherein the wound layer has a thickness from about
2 0.9 mm to 8 mm.

1 10. (original) The golf ball of claim 4, wherein the wound layer has a thickness less than 1
2 mm.

1 11. (original) The golf ball of claim 4, wherein at least one of the cover or the at least one
2 intermediate layer is formed from a component which comprises a thermoset material.

1 12. (original) The golf ball of claim 11, wherein the at least one intermediate layer comprises
2 a thermoset material and the cover comprises a thermoplastic material.

1 13. (original) The golf ball of claim 11, wherein the at least one intermediate layer comprises
2 a thermoplastic material and the cover comprises a thermoset material.

1 14. (original) The golf ball of claim 11, wherein the at least one intermediate layer and the
2 cover each comprise a thermoset material.

1 15. (original) The golf ball of claim 14, wherein the at least one intermediate layer and the
2 cover each comprise the same thermoset material.

1 16. (original) The golf ball of claim 4, wherein the cover is a single layer.

1 17. (currently amended) A multi-layer, wound golf ball comprising:
2 a center having a diameter from about 3.05 cm to 3.8 cm;
3 at least one intermediate layer disposed over the center;
4 a wound layer of a tensioned material disposed over the at least one intermediate layer
5 and having a thickness of less than 1 mm; and
6 a cover disposed over the wound layer.

1 18. (original) The golf ball of claim 17, wherein the center comprises a material selected
2 from the group consisting of polybutadiene, natural rubber, polyisoprene, styrene-butadiene
3 copolymers, styrene propylene-diene copolymers, and combinations thereof.

1 19. (canceled)

1 20. (previously presented) The golf ball of claim 17, wherein the tensioned material
2 comprises a material selected from the group consisting of fiber, glass, carbon, polyether urea,
3 polyether block copolymers, polyester urea, polyester block copolymers, isotactic-
4 poly(propylene), polyethylene, polyamide, poly(oxymethylene), polyketone, poly(ethylene
5 terephthalate), poly(p-phenylene terephthalamide), poly(acrylonitrile),
6 diaminodicyclohexylmethane, dodecanedicarboxylic acid, natural rubber, polyisoprene rubber,
7 styrene-butadiene copolymers, styrene-propylene diene copolymers, another synthetic rubber, or
8 block, graft, random, alternating, brush, multi-arm star, branched, or dendritic copolymers, and
9 combinations thereof.

1 21. (original) The golf ball of claim 20, wherein the tensioned material comprises polyether
2 urea, natural rubber, cis-polyisoprene rubber, or combinations thereof.

1 22. (original) The golf ball of claim 17, wherein at least one of the cover or the at least one
2 intermediate layer is formed from a component which comprises a thermoset material.

1 23. (original) The golf ball of claim 22, wherein the at least one intermediate layer comprises
2 a thermoset material and the cover comprises a thermoplastic material.

1 24. (original) The golf ball of claim 22, wherein the at least one intermediate layer comprises
2 a thermoplastic material and the cover comprises a thermoset material.

1 25. (original) The golf ball of claim 22, wherein the at least one intermediate layer and the
2 cover comprise a thermoset material.

1 26. (original) The golf ball of claim 25, wherein the at least one intermediate layer and the
2 cover comprise the same thermoset material.

1 27. (original) The golf ball of claim 17, wherein the cover is a single layer.

1 28. (original) The golf ball of claim 17, wherein at least one of the intermediate layer or the
2 cover has a Shore D hardness from about 30 to 85.

1 29. (previously presented) A multi-layer, wound golf ball comprising:
2 a fluid-filled center;
3 at least one intermediate layer disposed over the center;
4 a wound layer of a tensioned material disposed over the at least one intermediate layer;
5 and
6 a cover disposed over the wound layer;
7 wherein at least one of the cover or the at least one intermediate layer is formed from a
8 component which comprises a thermoset material; and
9 wherein the tensioned material comprises a material selected from the group consisting of
10 fiber, glass, carbon, polyether urea, polyether block copolymers, polyester urea, polyester block
11 copolymers, isotactic-poly(propylene), polyethylene, polyamide, poly(oxymethylene),
12 polyketone, poly(ethylene terephthalate), polyp-phenylene terephthalamide), poly(acrylonitrile),
13 diaminodicyclohexylmethane, dodecanedicarboxylic acid, natural rubber, polyisoprene rubber,
14 styrene-butadiene copolymers, styrene-propylene diene copolymers, another synthetic rubber, or
15 block, graft, random, alternating, brush, multi-arm star, branched, or dendritic copolymers, and
16 combinations thereof; and

17 wherein at least one of the outermost intermediate layer or the cover has a Shore D
18 hardness from about 30 to 85.

1 30. (original) The golf ball of claim 29, wherein the tensioned material comprises polyether
2 urea.

1 31. (previously presented) A multi-layer, wound golf ball comprising:

2 a center;

3 at least one solid intermediate layer disposed over the center;

4 a wound layer of a tensioned material disposed over the at least one intermediate layer;

5 and

6 a cover disposed over the wound layer;

7 wherein at least one of the cover or the at least one intermediate layer is formed from a

8 component which comprises a material selected from the group consisting of a thermoset

9 material, and wherein the tensioned material comprises fiber, glass, carbon, polyether urea,

10 polyether block copolymers, polyester urea, polyester block copolymers, isotactic-

11 poly(propylene), polyethylene, polyamide, poly(oxymethylene), polyketone, poly(ethylene

12 terephthalate), poly(p-phenylene terephthalamide), poly(acrylonitrile),

13 diaminodicyclohexylmethane, dodecanedicarboxylic acid, or block, graft, random, alternating,

14 brush, multi-arm star, branched, or dendritic copolymers, and combinations thereof.

1 32. (previously presented) A multi-layer, wound golf ball comprising:
2 a solid center;
3 at least one intermediate layer disposed over the center;
4 a wound layer of a tensioned material disposed over the at least one intermediate layer;
5 and
6 a cover disposed over the wound layer;
7 wherein the at least one intermediate layer comprises a thermoplastic material;
8 wherein the golf ball has a compression from about 50 to 120; and
9 wherein the golf ball has a coefficient of restitution of greater than about 0.7.

1 33. (previously presented) The golf ball of claim 32, wherein the wound layer has a
2 thickness less than 1 mm.